RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

OFF-ROAD RACER ULTIMA

- . SUPER LIGHTWEIGHT FOR QUICK ACCELERATION.
- LONG SUSPENSION, TRAVEL FOR TOP HANDLING ON EVEN THE ROUGHEST TRACKS.
- NEW ALUMINUM PLATE/TRUSS CHANNEL-TYPE CHASSIS FOR HIGH STRENGTH AND LIGHT WEIGHT.
 PERFECT COMBINATION OF SUSPENSION DESIGN AND WEIGHT DISTRIBUTION FOR TOP HANDLING.
- PERFECT COMBINATION OF SUSPENSION DESIGN AND WEIGHT DISTRIBUTION FOR TOP HAND.
 INDEPENDENT SUSPENSION ON ALL FOUR WHEELS WITH NEW RACE-TESTED GEOMETRY.
 - OIL-FILLED SHOCK ABSORBERS ON ALL FOUR WHEELS.
 FRONT ANTI-SWAY BAR STANDARD. REAR BAR OPTIONAL.
 - POWERFUL MABUCHI RS-540S MOTOR INCLUDED IN KIT.
 - TRUE GEAR-TYPE DIFFERENTIAL.
 - STRONG ALUMINUM AND NYLON PARTS.
 A QUALITY DESIGN FOR SIMPLE MAINTENANCE.
 - A QUALITY DESIGN FOR SIMPLE MAINTENANCE.
 MANY HIGH PERFORMANCE OPTIONAL PARTS ARE AVAILABLE.



ILTIMA

Before you begin, carefully read through the manual. This will give you a better understanding of the construction of this model.

Certain symbols are roughout the instructions. Pay attention to ...

Points where Grease/Oil should be applied. (This will reduce wear S OIL and friction and provide a smoother operating joint.)

SW-LOCK ... Places where Screw Lock (Zan Lock, etc.) should be applied. (This will prevent screws and nuts from loosening up during operation due Where you see this face, are steps that you should pay extra particular

IMPORTANT! BEFORE YOU BEGIN

This is a sophisticated model with a large number of moving parts. Before you begin assembly, take a look through the box and these instructions carefully to decide whether assembly, take a look introlugin me dook and meetin instructions caterially to occure animome or not you are ready for this challenge! If you do not feel that this type of model is for you, if may be returned to the dealer as long as it is NEW and UNUSED, UNDER NO CIRCUMSTANCES. CAN YOUR DEALER ACCEPT A KIT FOR RETURN IF CIRCUMSTANCES CANY YOUR DEALEM ACCESS A RESPONSE IN RECOVERY BY ASSEMBLY HAS ALREADY BECOUNT It his is, not what you bargained for, their on no further and return this kit to the dealer immediately. But, if a little maintenance doesn't bother you and the thrill of high performance driving is for you, then don't hestate another minutel Read through this entire manual throughly to familiarize yourself with the parts and methods of construction used before actually starting to



ENTIRE CONTENTS COPYRIGHT 1986, HOBBICO, INC.

2 CHANNEL RADIO SYSTEM Note: use only radio frequencies specif-

A tun channal, two como radio control ically allowed to operate "surface" models such as R/C cars and hoats. In

system is required for running me Ultima. The various components are models such as H/C cars and owen, in the United States those frequencies fall within the "75 mHz" or "27 mHz" bands. Use of any other frequencies is pictured below. TRANSMITTER both illegal and dangerous. "Wheel Type" "Stick Type" RECEIVER SERVOS BATTERY

> SMALL PARTS On Pages 23 & 24 there is a guide for the

SWITCH

out the sheet along the dotted line and use it to help you locate the particular parts and their shape used in each step.

REQUIRED TOOLS

These are not included with the Ultima FLAT HEAD SCREW DRIVER

HOI DER

NUT DRIVER (4mm)or equivalent

HOBBY KNIFI

HOBBY SHEARS **BODY SANDER**

NEEDLE NOSE PLIERS

A few different tunes of screws are used in the construction of your model. Here are so responds of them and how they will be indicated in the instructions. For example, Self-Tanning will simply by S/T screw.

SCRFW

Elit is an ordinary screw in will be marked "screw

ALLEN HEAD SCREW (A/H)

SELETAPPING (S/T) Has a tapered end.

FLAT HEAD SCREW (E/H)

PAN HEAD SCREW (P/H) 100000 Large

METRIC NUTS AND BOLTS

All nots and holts used throughout this kit are metric size. Therefore, some may not be familiar to you. An M3 nut is a 3 millimeter (3mm) nut). An M3x1!

M3x15 SCREW 15mm

4 Ø WASHER

Washer" this should be a washer with a 4mm inside diameter) or a "3 Ø Bushing" (a bushing with a 3mm inside diameter). At various point throughout the ma are labeled and pictured in their actual size on the left hand side of the page. For your reference. I milimeter equals approximately .039 inches.

Use the list of small parts to compare the shapes of the small parts used with each step such as, screws, nuts and washers

Do not use excessive force when tightening S/T type screws into plastic. Overlighten will cause the threaded portion of the plastic to strip. It is recommended to stop tightening when some resistance is fell after the thi aded portion enters the plastic.

Correct

BALL BEARINGS

Ball Bearings greatly improve performance and reduce mainto ball bearings with washer & snacer

OPTIONAL MOTORS The Ultima comes with a motor as stock performance motor. We



240SB

found the best ones to be the 480G 360PT 3800 the 480G, and 240SP

CYANOACRYLATE

GLUE E

A 7.2V battery similar in shape to t here is required. The Kyosho #2218 or #2306

CHARGER You'll need a changer to change your hattery. Kupsho offers two types for 6 -Cell packs.

purchasing

Time Model Name Rate % Multi-Charge (DC 12V) Full charge. Wide range 1846 Mir The best fully automatic 100% 1848 operation. Easy to use, suitable for 1845

No. 1846 Multi-Charger

CUTTERS

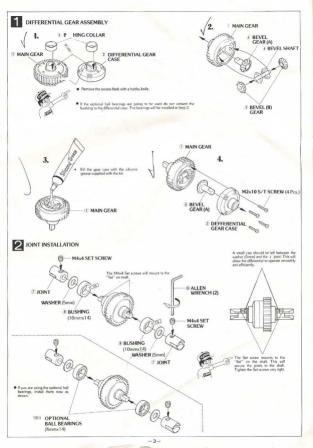
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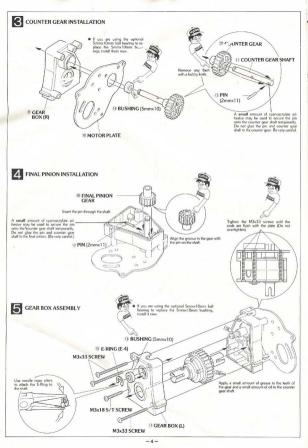


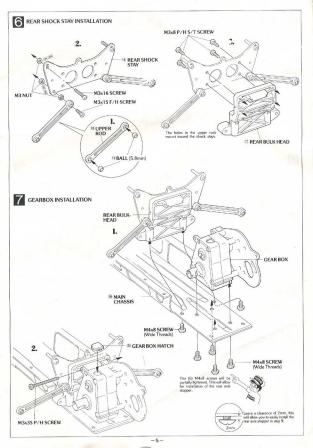
No. 1848 or No. 1845

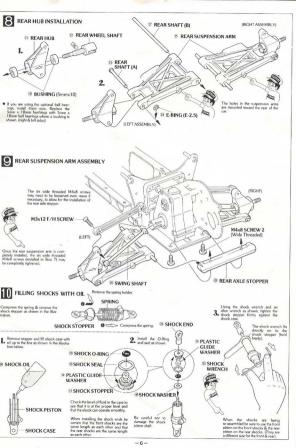
BRUSH

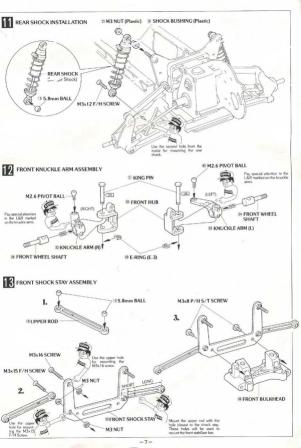
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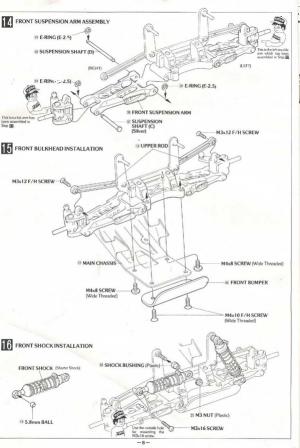


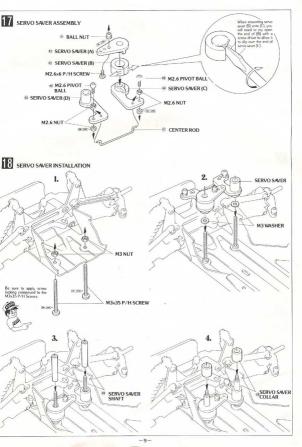


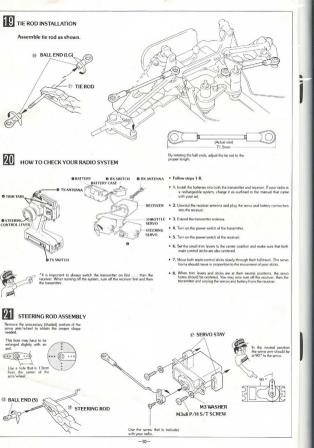


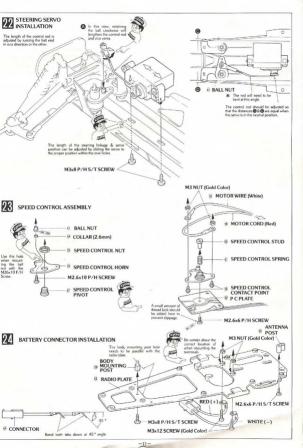


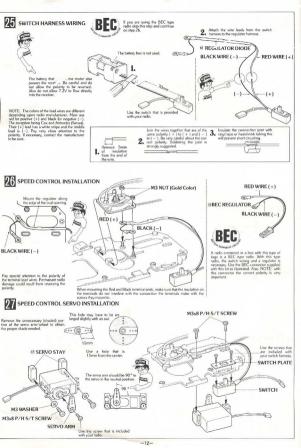


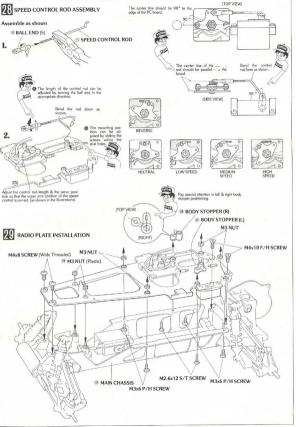


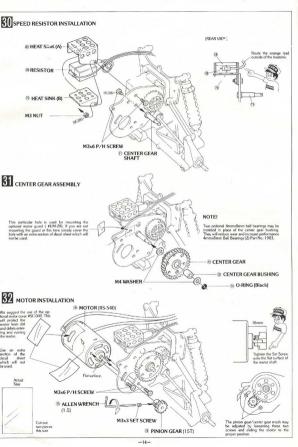


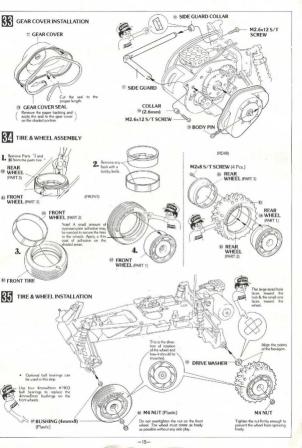


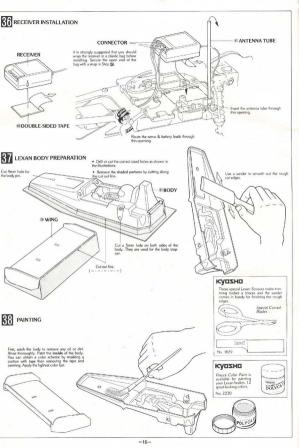


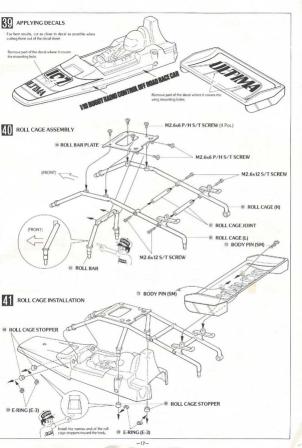


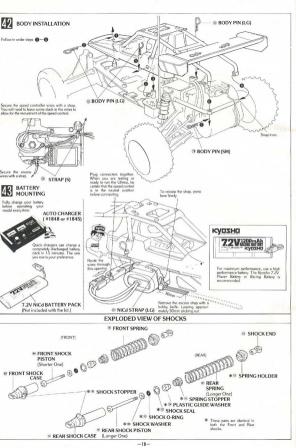






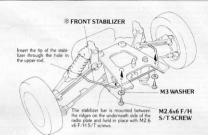




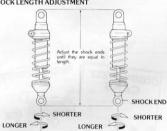


USE OF STABILIZERS

- ★ It is recommended to mount the stabilizer if these conditions occur.
 - 1. Very sensitive steering control (over steering).
 - 2. Flat race track.
 - Hard race track (loss of traction).
- ★ It is not recommended to mount the stabilizer if these conditions occur.
 - 1. Insensitive steering control (under steering).
 - 2. Bumpu race track.



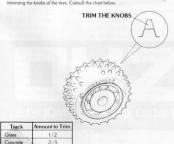
SHOCK LENGTH ADJUSTMENT



Adjust the shocks so that both front shocks and both rear shocks are exactly the same length.

CUSTOMIZING THE TIRES

You can increase the performance of your Ultima for various track conditions by trimming the knobs of the tires. Consult the chart below.



NONE

NONE

Sand

Hard Dirt

Soft Dirt

ADJUSTMENT OF SHOCK OIL AND SPRING

Front Shock	(Lighter oil, looser spring tension.	⇒ More effective steering
Front Shock	(Heavier oil, stronger spring tension.)	⇒ Less effective steering
Rear Shock	Lighter oil, looser spring tension.	⇒ More traction
Rear Shock	Heavier oil, stronger spring tension.	⇒ Less traction

GEAR RATIOS AND OPTIONAL MOTORS

PINION GEAR	14 T	15 T	16 T	17 T	18 T	19 T	20 T
GEAR RATIO	8.8	8.2	7.7	7.3	6.9	6.5	6.2
	LEMANS	240	S-240 S	В			
MOTOR			LEMANS	36	OGOLD	-360 P	Т
	LEMANS	480 5	- 480 T -	-480 G O	LD		

OPTIONAL RACING CLUTCH

This is a centrifugal clutch that limits the amount of torque applied to the gear train.



GEAR COVER

It will protect the drive train from sudden stops. It also enhance handling characteristics in cornering and on loose terrain. NOTE! The racing clutch is available in different sizes. See your parts listing.

The state of the s

BATTERY FLIMINATOR CIRCUITRY - BEC

What is BEC? BEC stands for Battery Eliminator Circuitry, which is exactly what it sounds like a circuit that eliminates the need for a receive battery, in the United States, use of the BEC system in radios is not wide-spread so chances are that you do not lave it. But if you do, then read on! The actual BEC circuity lie—within the receiver of your radio, not in

spread so chances are that you do r^{--} ave it. But if you do, then read out. The actual BEC circulary lie—within the receiver of your radio, not in your car? broggs. Some care begges have circuits that do eliminate the need for a receiver better, But most care stateled "BEC COUPPED" and the couper of the couper of

the receiver and servos get their power. In receivers other than

If your radio is not BEC Equipped you should use the method shown in Skeps 25 and 26 to power your receiver. If your receiver is BEC Equipped, then you can use the BEC connector that is supplied with this

kit. Your radio's switch harness has a matching BEC connector attached.

If the BEC connector is not already installed on the speed control, proper car should be taken when installing it. The polarity of the wires is proper car should be taken when installing it. The posting of the was sivery important and special attention should be given to get it correct. Remember to always connect Red (+) to Red (+) and Black (-) to Black (-). (Negative sides are not always black, sometimes they are

Black / white or other colors.) The BEC wires should be soldered on, where the battery wires go into the speed control. Note: If notarity is reversed, even for an instant, permanent damage to receiver could result. BE CAREFUL

This diagram will help you in understanding the BEC system and how it is used on the Turbo Optima. more information about the BEC system, contact your radio's manufacturer

REC CONNECTOR CHITCH BLACK BLACK HARNESS BLACK BEC CONNECTOR (Mala) DED . **SERVO** RECEIVER 7.2V 1200 mAh NI-CD BATTERY CEDUO ANTENNA Use Step 25 for installation of terminal ends on the BEC wiring connectors.



CONC MONG THE Low Profile Tires - Dirt track, Low Profile tires (5032) offer better handling and don't allow as much tire distortion. (Wheels not included with requires W-5021). Asphalt Low Profile tires (5031) give better traction on-road

istable Pressure Shocks - Kuosho is famo for shocks and these are their best yet. Adjustable pressure shocks will fit most electric buggles and are completely adjustable for any track condition.

SUGGESTED FURTHER READING



A wealth of hints, tips and peneral information about R/C cars is available at your favorite hobby store. We suggest the "Completely Cars" book by Harry Higley which is packed with hundreds of photos and great "Tech-Tos." R/C Car Action." a measurine published quantry by Wr-Age Publications. will keen you on top of all the latest developments in the R/C car hobby.

THE FINEST RADIO CONTROL MODELS

KIT No.3115

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CHECK BEFORE EVERY RUN

Check to see if all holts and nuts are tief-coed firmly.

Check to see NiCd battery is fully charged.

Check to see if the steering and speed control is in proportion to your control of

Check to see that all wiring is properly insulated. Check to see if parts are moving smoothly.

OPERATING PROCEDURES

Turn transmitter switch on.

Switch on the receiver.

Check to see if the radio system is working properly.

NOTE: When turning off the switches, turn off the receiver first then transmitter.

Otherwise, the servo may be left in a position other than neutral.

TROUBLE SHOOTING IF THE CAR DOES NOT START

Poor contact of connectors of batteries, connector, and speed control.

Check to see if the NICd battery is fully charged.

Check to see in the NiLd cattery is fully charged.

Check to see shortage of battery power for the transmitter.

Signal samming from other radios.

VEV NUMBERS FOR DARTS

	KEY NUMBERS FOR PARTS									
No.	Turis reality	Q'ty. No.	Parts Name	Q*ty.	No.	Parts Name	Q'ty.	No.	Parts Name	Q'ty.
1	Main Gear		nt Shock Stay	1	89 Hea	Sink (A)	1	Rea	r Shock Case	2
	Differential Gear		nt Bulk Head	1	20 Hea	Sink (B)	1		st Shock Piston	
3	Bushing Collar	2 37 Su	spension Shaft (C) .		70 Cen	ter Gear Shaft	1		r Shock Piston	
	Bevel Gear (A)		int Suspension Arm.			er Gear			nt Spring	
(5)	Bevel Gear (B)		spension Shaft (D)	2	7 Cent	er Gear Bushing	1		r Spring	
	Bevel Shaft		nt Shock Bumper	1	Ø 0-R	ng	1		ng Stopper	
	Joint		Nut	2		Wrench (1.5)			ck Washer	
	10mmx14 Bushing		vo Saver (A)	1	(%) Pinic	in Gear (15T)	1		ck O-Ring	
	Gear Box (R)		vo Saver (B)	1	TO Geor	Cover	1	(iii) Sho	ck Stopper	4
	Motor Plate		vo Saver (C)			Cover Seal		® Spri	ing Holder	4
	Counter Gear Shaft		o Saver (D)		3 Bod	Pin (SM)	4		ck End	
	2mmx11 Pin		6 Pivot Ball			Tire		® BEC	Connector	1
	5mmx10 Bushing		ter Rod	1	® Rear	Tire	7		ed Control Rod	
	Gear Box (L)		o Saver Shaft		82 Fron	Wheel (1)	2		or (RS-540)	
	E-Ring (E-4)		o Saver Collar		83 Fron	Wheel (2)	2	® Side	Guard	1
	Rear Shock Stay		End (L)		84 Rear	Wheel (1)	2	@ Mair	Chassis	1
	Rear Bulk Head		Rod		35 Rear	Wheel (2)	2			
	Upper Rod		End (S)		36 Rear	Wheel (3)	2	® Resid	dor	1 Set
19	5.8mm Ball		ring Rod		€ 4mm	x8 Plastic Bushing .	4		Washer	
	Gear Box Hatch		nm Collar			lastic Nut		® Shoo	k Seal	4
20 p	Rear Hub		ed Control Nut		39 Doub	le Sided Tape	1		k Wrench	
	Rear Wheel Shaft		ed Control Horn		30 Anter	na Pipe	1		(S)	
	Suspension Shaft (A)		ed Control Pivot		(9) Body		1	® Fron	Stabilizer	1
	-Ring (E-2.5)		or Cord		92 Decal		1		Wrench (2)	
	Rear Suspension Arm		ed Control Contact P		83 Roll	Bar	1	@ Cour	nter Gear	1
	iwing Shaft		nd Control Stud		84 Roll E	lar Plate	1	® Final	Pinion	1
	iuspension Shaft (B)		ed Control Spring .	1	S Roll (age (R)	1		Axle Stopper	
	hock Bushing		Board		96 Roll (lage (L)	1	Bod,	Hook	1
	13 Plastic Nut		o Plate		® Roll (age Joint	2		Guard Collar	
	ront Hub		nector		98 Roll (age Stopper	4		Stopper (L)	
20 K	ing Pin		nna Post		9 E-Rin	g (E-3)	6	® Body	Pin (LG)	3
	nuckle Arm (R)		lator					(9) Plasti	ic Guide Washer	2
	nuckle Arm (L)		o Stay		@ NiCd	Strap	2			
34 Fr	ront Wheel Shaft	.2 Body	Stopper (R)	1	Front (Shock Case	2			

PURCHASING PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. All of the parts identified be key numbers (see page 20 for a complete list) are usur'sy not available singularly, but we off-, these parts in convenient parts "packs" which can be purchased separately. To floure out which parts pack you need, find the key

Parts Pack #

number for that part within the manual. Then consult our parts pack guide, below. When referring the the parts you need, always use the parts pack number. For instance, if you need a counter gear shalf (Key #11) ask your dealer for Kyosho Parts Pack UM-05 (Cear Shaff Set).

SPARE PARTS LIST

Includes Those Key Number: | Page Pack #

Parts Pack #	Desc::ption	Includes These Key Numbers	Parts Pack #	Description	Includes These Key Numbers
OT-05	Joint	(Y) ×2	UM-15	Radio Plane	63 ×1
OT-06	Swing Shaft	26 ×2		- 1 -	889988666 ×1
OT-18	Rear Shaft	20 ×2	UM-16	Body Set	\$0 ×2 № ×4
OT-19	Drive Washer	® ×4	UM-17	Wheel Set	82 83 84 85 86 × 2
OT-24	Pinion Gear (15T)	30 ×1	UM-18	Body	91 ×1
OT-28	Differential Gear Set	® ×2 ● ③×4	UM-19	Decal (Ultima)	® ×1
OT-29	O-Ring	76 ×10	UM-20	Main Chassis	® ×1
OT-32	5.8mm Ball	(B ×10	UM-21	Front Bumper	40 ×1
OT-33	Ball INut (M2.6)	⊕ ×10	UM-22	Screw Set	Screw Nut Wrench Set
OT-36	M2.6 Pivot Ball	® ×10			(w/o Plastic Nut)
OT-37	Cord Set	86 ×1 58 ×1 Set		OPTIONAL	DARTO
OT-39	E-Ring (E-2.5)	28 ×10	l	OPTIONAL	PARIS
OT-58	Wing	® ×1	1901	Ball Bearing (5mmx10)	2 Pcs. For Rear Hub & Gear Box
OT-66	Low Profile Tire (Rear)	⊕ ×2	1903	Ball Bearing (4mmx8)	2 Pcs. For Center Gear, Front Wheel
OT-72	Registor Heat Sink	68 79 ×1	1911	Ball Bearing (8mmx14)	2 Pcs. For Differential Gear
SC-26	Front Tire	91 ×2	W-5031	Low Profile Tire (All Around)	For Hard Track (fits W-5021 Rims)
SC-46	Double Sided Tape	89 ×1	W-5032	Low Profile Tire (High Grip)	For Soft Track (fits W-5021 Rims)
SC-67	Speed Control Set	59 58 57 68 60 60 ×1 59 ×2	OT-51	Pinion Gear (14T)	Geor Ratio 8:1
SC-78	Speed Control PC Board	82 ×1	OT-52	Pinion Gear (16T)	Cear Ratio 7.7:1
SC-79	Speed Control Contact Point	50 ×2	OT-53	Pinion Gear (17T)	Gear Ratio 7.3.1
SC-89	Tie Rod	50 ×2 90 50 ×4	UM-23	Pinion Gear (18T)	
SC-105	Resistor	® ×1 Set	UM-24	Pinion Gear (19T)	
EP-22	Body Pin	70 ×5	UM-25	Pinion Gear (20T)	
EF-26E	Connector	9 x1	1951	Shock Oil Set (S.M.H)	Three Different Weights
FF.39	N Cd Strap	® ×6	LM-15	Cooling Plate	For LeMans Motor
EF-37	Strap (S)	99 ×6	OT-64	Special Wing	(Metal)
SD-79	Antenna Pipe	30 ×5	SC-90	Front Tire	High Grip Type
KC-20	E-Ring (E-4)	39 ×4	W-5021	Low Profile Wheel	Silver
CB-72	E-Ring (E-3)	99 ×4	W-5044	Racing Clutch (14T)	The racing clutches limit the amount
		@869698999×2	W-5046	Racing Clutch (16T)	of torque applied to the gear train and prevents drive train parts break-
AB-30	Front Shock Set	60 ×4 60 ×1	W-5048	Racing Clutch (18T)	age due to hard landings and sud- den stees.
		施施保施的信仰信用 N ×2	W-5001	Pressure Oil Shock (S)	Use w/UM-26 Special Shock Stay
AB-31	Rear Shock Set	® x4 ® x1	W-5002	Pressure Oil Shock (L)	Use w/UM-26 Special Shock Stay
1887	Shock Seal (M) (10mm)	® ×10	OT-76	Hard Final Pinion Gear	Need flat surface on the shaft
1889	Body Pin	(B) ×5	1990	Regulator	Stabilized power source for receiver
UM-01	Gear Set	① ② ② ② ◎ ×1	EF-103	Racing Wire	4mm Silicone Cords
UM-02	Bushing Set	78 x1 30 8 x2 18 x6	1863	Sponsor Sticker	Decal w/Sponsor Mark
UM-03	Gear Box	9 10 x1	UM-26	Special Shock Stay	For pressure oil shock
UM-04	Motor Plate	19 ×1	UM-27	Special Chassis	2mm Thickness
UM-05	Gear Shaft Set	80 x1 8 x2	UM-28	Motor Guard (Ultima)	Zimii (incones)
UM-05	Shock Stay Set	9 8 x1	W-5061	Universal Swing Shaft	Wheel Shaft, Swing Shaft Set
UM-07	Suspension Shaft Set	28 27 37 38 ×2	1952	Differential Oil	Use when willing to harden diff. gear
UM-08	Front Shaft Set	00 04 ×2	W-5005	Special Rod Set	Upper Arm/Tie Rod Adjustment
UM-09	Rod Set	Ø 8 6 8 ×1 10 ×2	SC-040	Motor Cover	Opper term the too to a particular
UM-10	Collar Set	80 90 ×2	1974	Complete Bearing Set	(6) 5mmx10mm
UM-11	Upright Set	30 30 ×1 20 30 ×2	1974	Complete Dearing Set	(2) 8mm×14mm
UM-11	Upright Set Bulk Head Set	10 99 07 09 09 ×1			(2) 8mmx14mm (6) 4mmx8mmx3mm
UM-12	Suspension Arm Set	29 39 ×2			(0) 400000000000000000000000000000000000
UM-14	Servo Saver Set	######################################			

M210 C /T CCPEW /4\ 0	HOCK STAY INSTALLATION TO FROM	
M210 C /T CCPEW /4\ 0		
	THOR	THE CHEET HE TO SENDE
3 BUSHING M3x8 P/H S/ SCREW (4)	T (IIIIII) 55 ERING (F-31(2)
	CREW (2)	
M3x15 SCREI		
BEVEL GEAR (A) (2) M3 NUT (6)	SHAFT;	
® BEVEL GEAR (B) (2) SOF	LL (4) 8 M2.6 PIV BALL (2)	
GEAR BO	OX INSTALLATION	
® BEVEL SHAFT (1) M4x8 SCREW	1 1000	T SHOCK ASSEMBLY
2 JOINT INSTALLATION (Wide Thread	ls) (6) M3x8 P/H	S/T SCREW (
M4x4 SET SCREW (2) M3x35 P/H SCREW (1)	M3x16 SCR	REW (2)
M5 WASHER (2)	UB ASSEMBLY M3x15 F/H	SCREW (2)
③ 5mmx10m		(O)
JOINT (2) BUSHING (9 5.8mm B	BALL (4)
23 REAR SHA		
® 10mmx14mm BUSHING (2) (()) SE-RING (E-2	ADM A	IT SUSPENSION ASSEMBLY
₩ REAR SHA	FT (B) (2) % 20 E RING (
® ALLEN WRENCH (2)	EEL SHAFT (2) SUSPEN	ICION
	(Silver Co	olor)
COUNTER GEAR INSTALLATION COUNTER GEAR SHAFT (1)	1000	
O O REAR SU	ISPENSION IS SUSPEN	NSION SHAFT (D) (2)
2 ARM AS	SEMBLY	U.
① PIN 2mmx11 (1) M3x12 F/H	TE FROM	T BULKHEAD
(9 5mmx10 M4x8 SCREV BUSHING (1) (Wide Thread		ALLATION I SCREW
STOLZ MELLING	M4x8 SCRI SHOCKS WITH OIL (Wide Thre	
® COUNTER GEAR (1) \$ SHOCK W		SCREW (2)
San	(Wide Three	aded)
4 FINAL PINION INSTALLATION	RING (4) FRON	IT SHOCK INSTALLATION
② 2mmx11 PIN (1) ③ SHOCK E	ND (4) M3x16 SCR	REW (2)
550K3	® SHOCK BUSHING	(a) (i)
# FINAL PINION STORE SHOCK SE	AL (4)	(Plastic) (2)
™ PLASTIC C		O CHIED ACCEMBLY
GEAR BOX ASSEMBLY WASHER (M2 6v6 P/	O SAVER ASSEMBLY
M3x18 S/T SCREW	HOCK INSTALLATION SCREW (1)	
M3x33 SCREW (3)	CREW (2) M2.6 NUT	of
11 5.8mm BA	LL (2) BALL NU	9
§ 5mmx10mm BUSHING (1) SHOCK BI (Plastic) (2)		

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SMALL PARTS REQUIRED FOR EACH STEP

SMALL PARTS REQUIRED FOR EACH STEP BATTERY CONNECTOR CENTER GEAR ASSEMBLY SERVO SAVER INSTALLATION INSTALLATION M3x35 P/H SCREW (2) M3x12 SCREW M4 WASHER (2) (Gold Color) (2) M2.6x6 P/H S/T SCREW (1) O-RING M3 NUT (2) M3x8 P/H S/T SCREW (1) (Black Color) (1) M3 WASHER (2) 73 CENTER GEAR M3 NUT (Gold Color) (2) BUShiim (1) 41 SERVO SAVER ® BODY MOUNTING SHAFT (2) POST (1) MOTOR INSTALLATION 18 SERVO SAVER M3x6 P/H SCREW (2) COLLAR (2) SPEED CONTROL INSTALLATION M3x3 SET SCREW (1) IIII 75 ALLEN WRENCH (1.5) (1) M3 NUT (Gold Color) (2) TIE ROD INSTALLATION GEAR COVER INSTALLATION 50 BALL END (LG) (4) SPEED CONTROL 59 TIE ROD (2) SERVO INSTALLATION 54 2.6mm COLLAR (1) (O) M3 WASHER (2) SIDE GUARD M3v8 P/H S/T COLLAR (1) STEERING ROD ASSEMBLY SCRFW (4) 28 BODY PIN (1) M3x8 P/H S/T SCREW (2) TIRE & WHEEL ASSEMBLY M3 WASHER (2) SPEED CONTROL M2x8 S/T SCREW Christina ROD ASSEMBLY 12 BALL END (S) (1) M2.6 WASHER (2) TIRE & WHEEL INSTALLATION 53 STEERING ROD (1) 52 BALL END (S) (1) M4 NUT (2) @ SPEED CONTROL ROD (1) 4mmx8mm 87-BUSHING (Plastic) (4) M STEERING SERVO INSTALLATION 88 M4 NUT (Plastic) (2) M3x8 P/H S/T RADIO PLATE INSTALLATION SCREW (2) M4x8 SCREW DRIVE WASHER (2) (Wide Threads) (2) SPEED CONTROL ASSEMBLY M4x10 F/H SCREW (2) MI ROLL CAGE ASSEMBLY M2.6x6 P/H SCREW (1) M3x6 P/H SCREW (4) M2.6x6 P/H S/T SCREW M2.6x10 P/H SCREW (1) M2.6x12 S/T M2.6x12 S/T SCREW (4) SCREW (2) M3 NUT (Gold Color) (2) M3 NUT (4) ROLL CAGE INSTALLATION 40 BALL NUT (1) 27 M3 NUT (Plastic) (2) 79 BODY PIN (SM) (2) 34 2.6mm COLLAR (1) BODY STOPPER # BODY STOPPER ROLL CAGE (R)(1) (L) (1) 55 SPEED CONTROL STOPPER (4) NUT (1) 35 E RING (E-3) (4) 57 SPEED CONTROL PIVOT (1) SPEED RESISTOR INSTALLATION M BODY INSTALLATION CONTACT POINT (2) M3x6 P/H SCREW (2) 38 BODY PIN (SM) (1)

M3 NUT (1)

CENTER GEAR SHAFT (1)

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68 SPEED CONTROL

50 SPEED CONTROL

STUD (1)

SPRING(1)

BODY PIN (LG) (3)